

FIG. 1 (Prior Art)

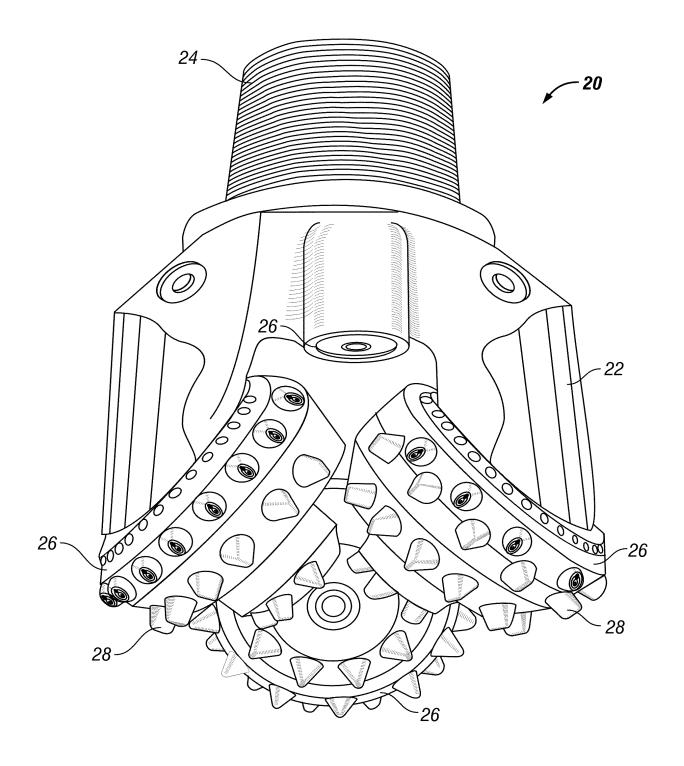


FIG. 2 (Prior Art)

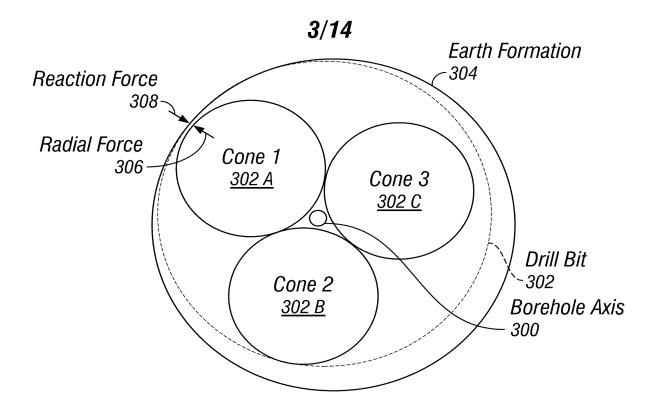
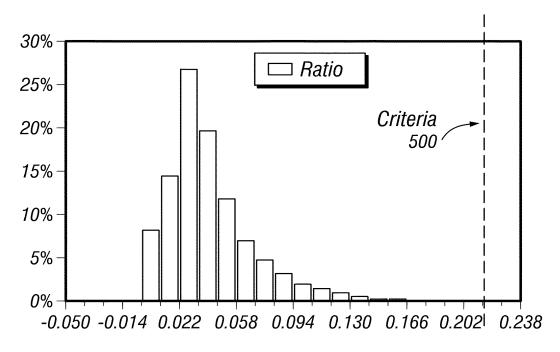
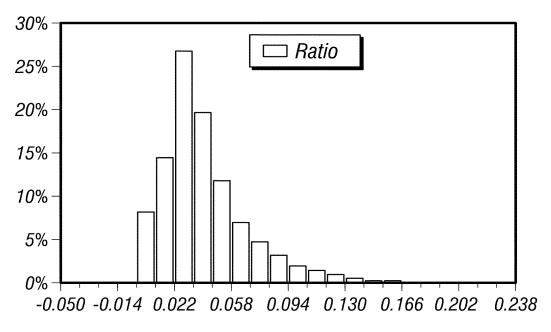


FIG. 3 Start ST 400-Obtain magnitude and direction of radial forces ST 402-Apply a criteria to the radial forces ST 406 Adjust design and ST 404obtain magnitude Continue Yes and direction of analysis radial forces for the adjusted design No End

FIG. 4



Ratio of Lateral Force to WOB FIG. 5



Ratio of Lateral Force to WOB FIG. 6

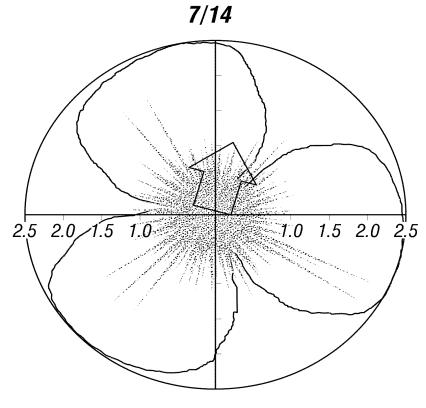
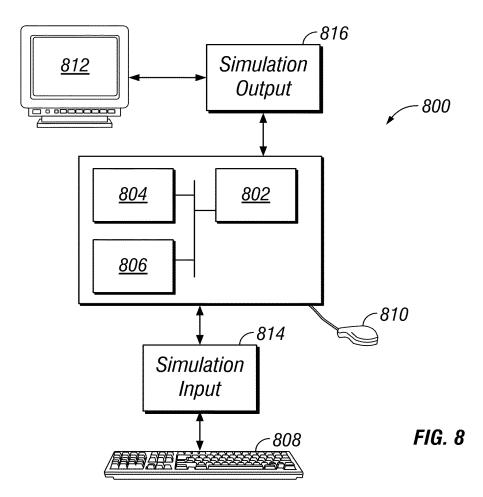
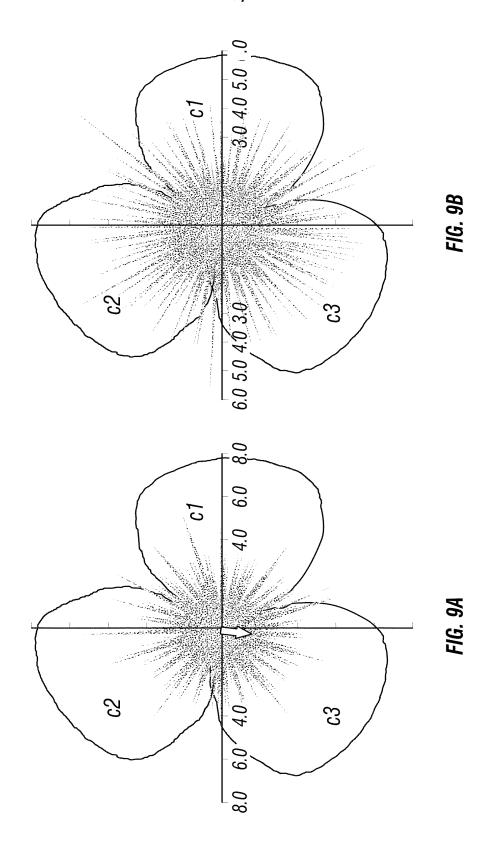


FIG. 7





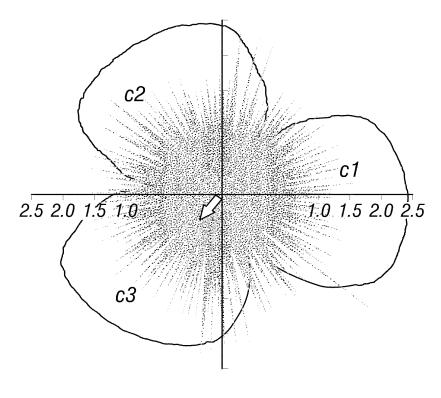
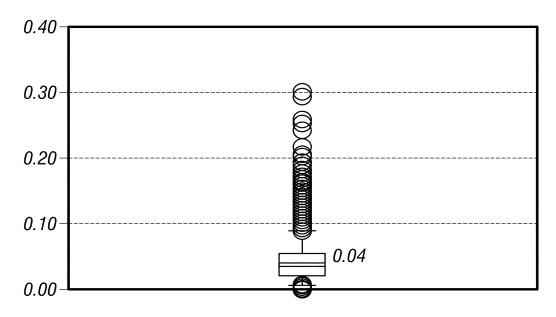
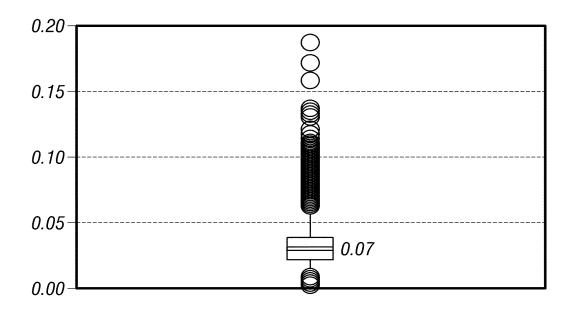


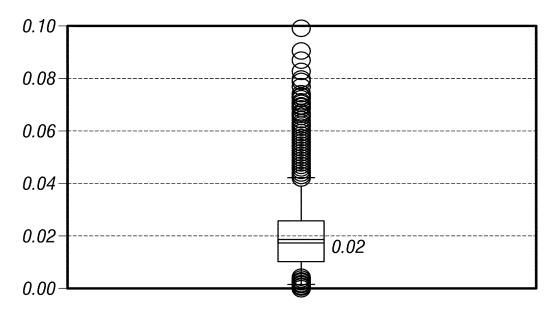
FIG. 9C



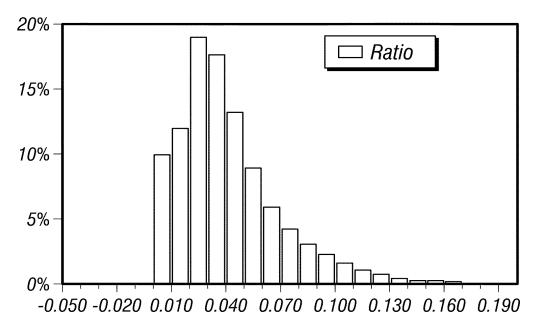
Ratio of Force H to WOB FIG. 10A



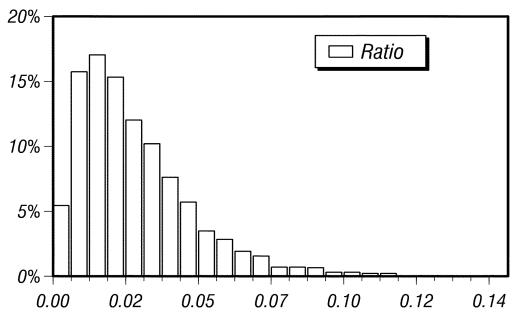
Ratio of Force H to WOB FIG. 10B



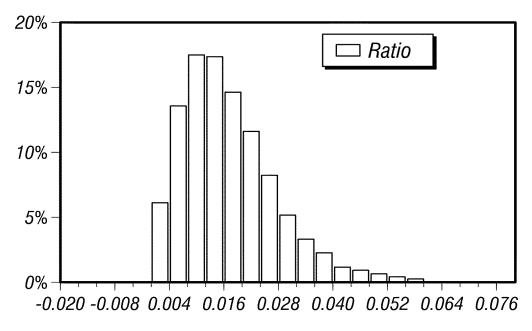
Ratio of Force H to WOB FIG. 10C



Ratio of Lateral Force to WOB FIG. 11A



Ratio of Force H to WOB FIG. 11B



Ratio of Lateral Force to WOB FIG. 11C

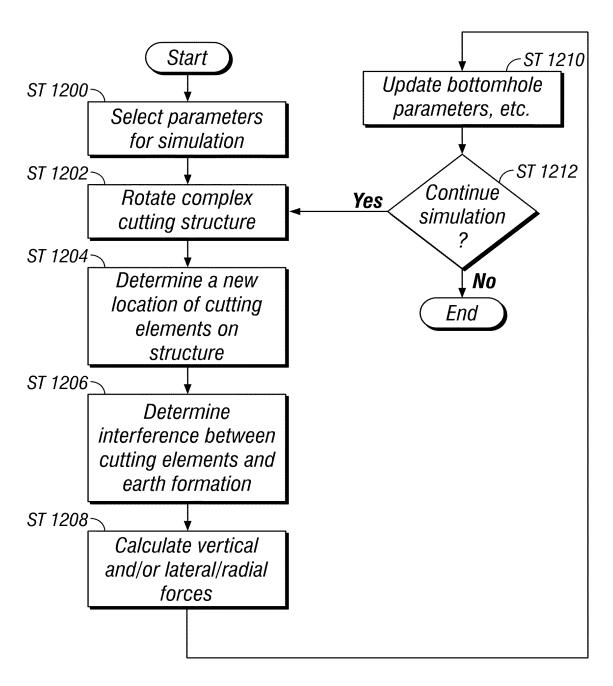
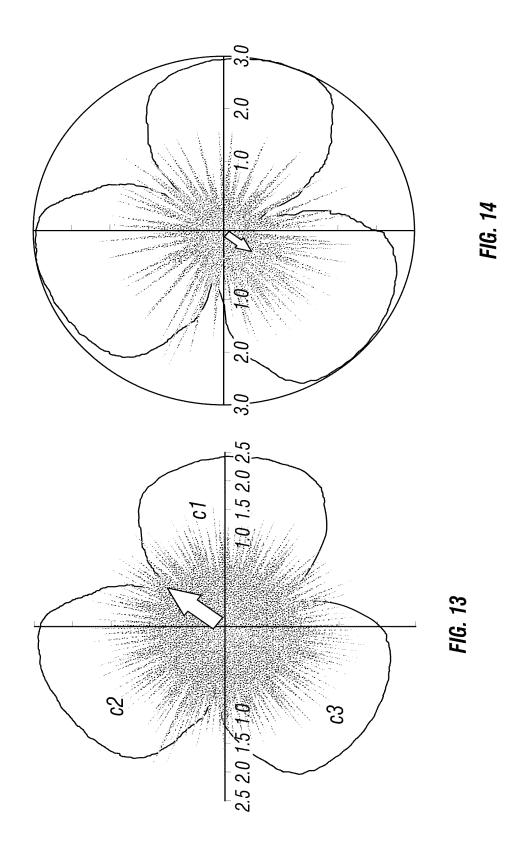


FIG. 12



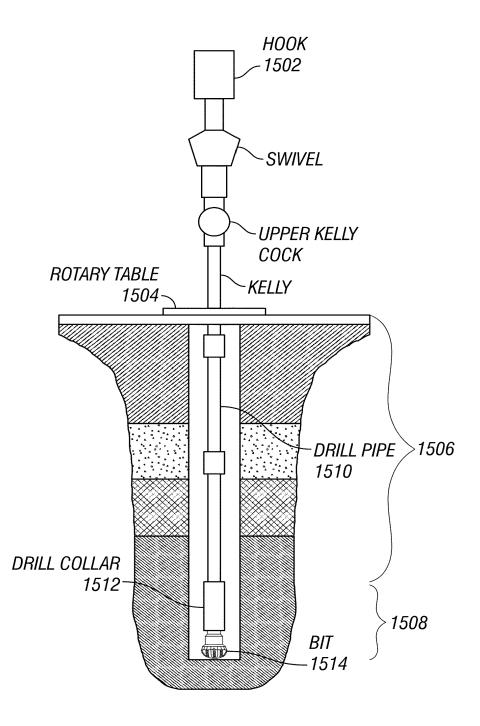


FIG. 15

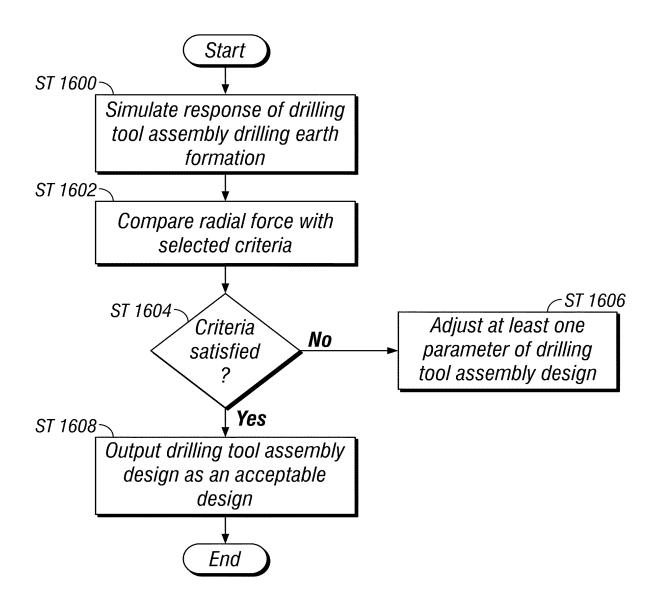


FIG. 16